FIGURE 1 (PRIOR ART)

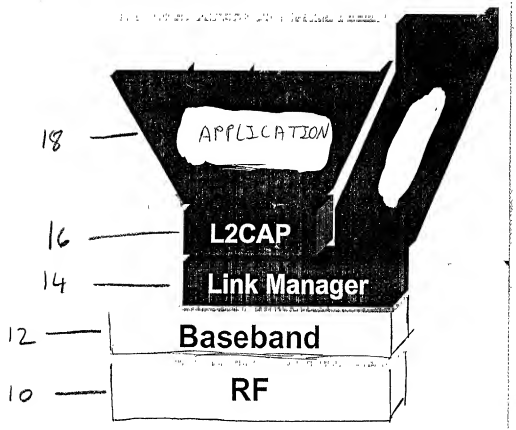


FIGURE 2

slot	action	UNIT 1 (s1)			UNIT 2 (s2)			UNIT 3 (s3)		
		T1(s1)	T1 flag	T2(s1)	T1(s2)	T1 flag	T2(s2)	T1(s3)	T1 flag	T2(s3)
0	m0 polls s1	0	FALSE	0	2	FALSE	0	2	FALSE	0
2	m0 polls s2	2	FALSE	0	0	FALSE	0	4	FALSE	0
4	m0 polls s3	4	FALSE	0	2	FALSE	0	0	FALSE	0
6		6	FALSE	0	4	FALSE	0	2	FALSE	0
8		8	FALSE	0	6	FALSE	0	4	FALSE	0
10		0	TRUE	0	8	FALSE	0	6	FALSE	0
12		2	TRUE	2	0	TRUE	0	8	FALSE	0
14	m0 polls s3	4	FALSE	0	2	FALSE	0	0	FALSE	0
16	m0 dissappears	6	FALSE	0	4	FALSE	0	2	FALSE	0
18		8	FALSE	0	6	FALSE	0	4	FALSE	0
20		0	TRUE	0	8	FALSE	0	6	FALSE	0
22		2	TRUE	2	0	TRUE	0	8	FALSE	0
24		4	TRUE	4	2	TRUE	2	0	TRUE	0
26		6	TRUE	6	4	TRUE	4	2	TRUE	2
28		8	TRUE	8	6	TRUE	6	4	TRUE	4
30	S1 performs forced	0	TRUE	10	8	TRUE	8	6	TRUE	6
32	M/S switch	2	TRUE	x	0	FALSE	0	8	FALSE	0
34		4	TRUE	x	2	FALSE	0	0	FALSE	0
36		6	TRUE	x	4	FALSE	0	2	FALSE	0
38		8	TRUE	x	6	FALSE	0	4	FALSE	0

FIGURE 3

step	action			T2(s3)		T2(s5)
20	s1 initiates masterless role-switching procedure					
22	s1 sends FHS to AM_ADDR=2			reset		reset
24	s1 sends FHS to AM_ADDR=3					reset
26	s3 joins s1 piconet					
28	end joining procedure					reset
30	s1 sends FHS to AM_ADDR=4					reset
32	s1 sends FHS to AM_ADDR=5					
34	s5 joins the new piconet					

FIGURE 4

m0

a

Unit Name	AM_ADDR	LCID	CH
Olly	1	0x41	0x01
Therese	3	0x43	0x03
Fay	5	0x45	0x05

s1

b

Max	0	0x41	0x01
Therese	3	-	-
Fay	5	-	-

s3

c

Max	0	0x41	0x01
Olly	1	-	-
Fay	5	-	-

s5

d

Max	0	0x41	0x01
Olly	1	-	-
Therese	3	-	-

FIGURE 5

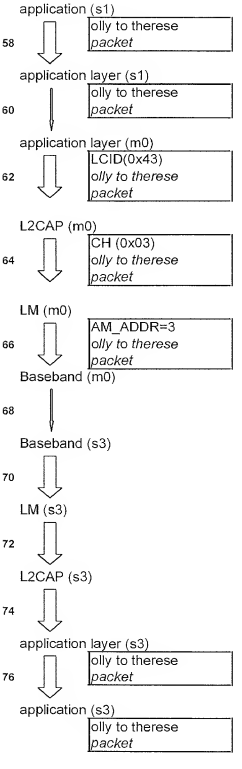

application (s1)
olly to therese
packet
58
application layer (s1)
olly to therese
packet
60
application layer (m0)
LCID(0x43)
olly to therese
packet
62
L2CAP (m0)
CH (0x03)
olly to therese
packet
64
LM (m0)
AM_ADDR=3
olly to therese
packet
66
Baseband (m0)
68
Baseband (s3)
70
LM (s3)
72
L2CAP (s3)
74
application layer (s3)
olly to therese
packet
76
application (s3)
olly to therese
packet

FIGURE 6

80

s1				s3				s5			
max	0	0x41	0x01	max	0	0x41	0x01	max	0	0x41	0x01
Therese	3	-	-	olly	1	-	-	olly	1	-	-
fay	5	-	-	fay	5	-	-	therese	3	-	-

82

baseband(s1) informs application adaptation layer (s1) that Max is gone
application adaptation layer(s1) informs application(s1) that Max is gone
baseband(s1) sends LCI_SwitchCompleteEvent() to LM(s1)

84

baseband(s3) informs application adaptation layer (s3) that Max is gone
application adaptation layer(s3) informs application(s3) that Max is gone
baseband(s3) sends LCI_SwitchCompleteEvent() to LM(s3)

86

baseband(s5) sends LCI_SwitchCompleteEvent() to LM(s5)
application adaptation layer(s5) informs application(s5) that Max is gone
baseband(s5) sends LCI_SwitchCompleteEvent() to LM(s5)

88 addressing list (s1), (s3) and (s5) are amended

s1				s3				s5			
~~Max~~	~~0~~	~~0x41~~	~~0x01~~	~~Max~~	~~0~~	~~0x41~~	~~0x01~~	~~Max~~	~~0~~	~~0x41~~	~~0x01~~
Therese	3	-	-	Olly	**0**	-	-	Olly	**0**	-	-
Fay	5	-	-	Fay	5	-	-	Therese	3	-	-

90 LM(s1) connects to LM(s3), new CH parameters assigned

92 LM(s1), (s3) send HCI_SwitchCompleteEvent() to L2CAP(s1), (s3)

94 addressing list (s1) and s(3) are amended

s1				s3				s5			
Therese	3	-	**0x03**	Olly	**0**	-	**0x00**	Olly	**0**	-	-
Fay	5	-	-	Fay	5	-	-	Therese	3	-	-

96 L2CAP(s1) connects to L2CAP(s3), new LCID parameters assigned

98 addressing list (s1) and s(3) are amended

s1				s3				s5			
Therese	3	**0x43**	**0x03**	Olly	**0**	**0x40**	**0x00**	Olly	**0**	-	-
Fay	5	-	-	Fay	5	-	-	Therese	3	-	-

100 LM(s1) connects to LM(s5), new CH parameters assigned

102 LM(s1), (s5) send HCI_SwitchCompleteEvent() to L2CAP(s1), (s5)

104 addressing list (s1) and s(5) are amended

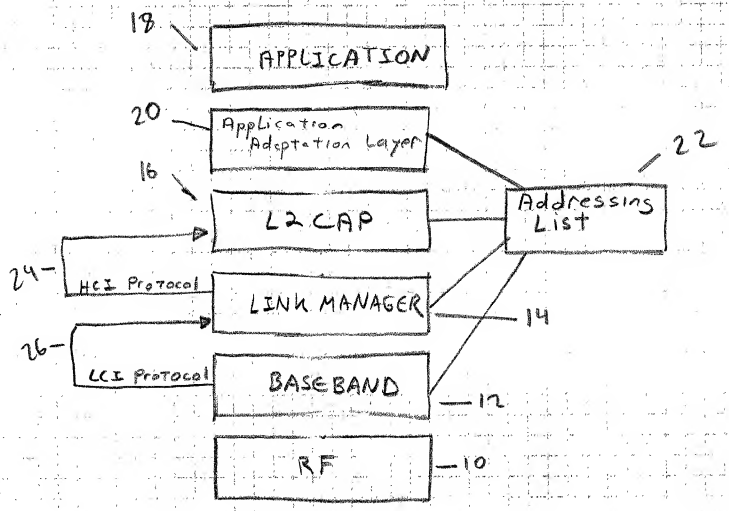
s1				s3				s5			
Therese	3	**0x43**	**0x03**	Olly	**0**	**0x40**	**0x00**	Olly	**0**	-	**0x00**
Fay	5	-	**0x05**	Fay	5	-	-	Therese	3	-	-

106 L2CAP(s1) connects to L2CAP(s5), new LCID parameters assigned

108 addressing list (s1) and s(5) are amended

s1				s3				s5			
Therese	3	**0x43**	**0x03**	Olly	**0**	**0x40**	**0x00**	Olly	**0**	**0x40**	**0x00**
Fay	5	**0x45**	**0x05**	Fay	5	-	-	Therese	3	-	-

FIGURE 7


18
APPLICATION
20
Application Adaptation Layer
16
L2CAP
22
Addressing List
24
HCI Protocol
LINK MANAGER
14
26
LCI Protocol
BASEBAND
12
RF
10